

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference .8520 WO MAR PA-FRI	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT / EP 03 / 10759	International filing date (day/month/year) 26/09/2003	(Earliest) Priority Date (day/month/year) 01/10/2002
Applicant ZF FRIEDRICHSHAFEN AG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
 - contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. **Certain claims were found unsearchable** (See Box I).

3. **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

5

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP/10759

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F15B11/042 F16H61/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 F15B F16D F16H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 1 440 115 A (SIGMA) 27 May 1966 (1966-05-27) page 1 -page 3; figures ---	1-4
A	GB 2 106 610 A (ZAHNRADFABRIK FRIEDRICHSHAFEN) 13 April 1983 (1983-04-13) page 1, line 58 -page 2, line 126; figures 1-3 ---	1-4
A	US 5 902 344 A (MCKEE KEVIN D ET AL) 11 May 1999 (1999-05-11) column 14, line 6 -column 16, line 4; figures 7,8 ---	1-4
A	US 4 086 994 A (HIROSAWA KOICHIRO ET AL) 2 May 1978 (1978-05-02) figures 11,12 -----	1-4

Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

Special categories of cited documents :	<ul style="list-style-type: none"> *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed
Date of the actual completion of the international search	Date of mailing of the international search report

5 December 2003

19/12/2003

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Sbaihi, M
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP/10759

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
FR 1440115	A 27-05-1966	NONE		
GB 2106610	A 13-04-1983	DE	3131420 A1	24-02-1983
		FR	2511095 A1	11-02-1983
		IT	1159213 B	25-02-1987
US 5902344	A 11-05-1999	NONE		
US 4086994	A 02-05-1978	JP	1014828 C	29-09-1980
		JP	51067861 A	11-06-1976
		JP	55004969 B	02-02-1980